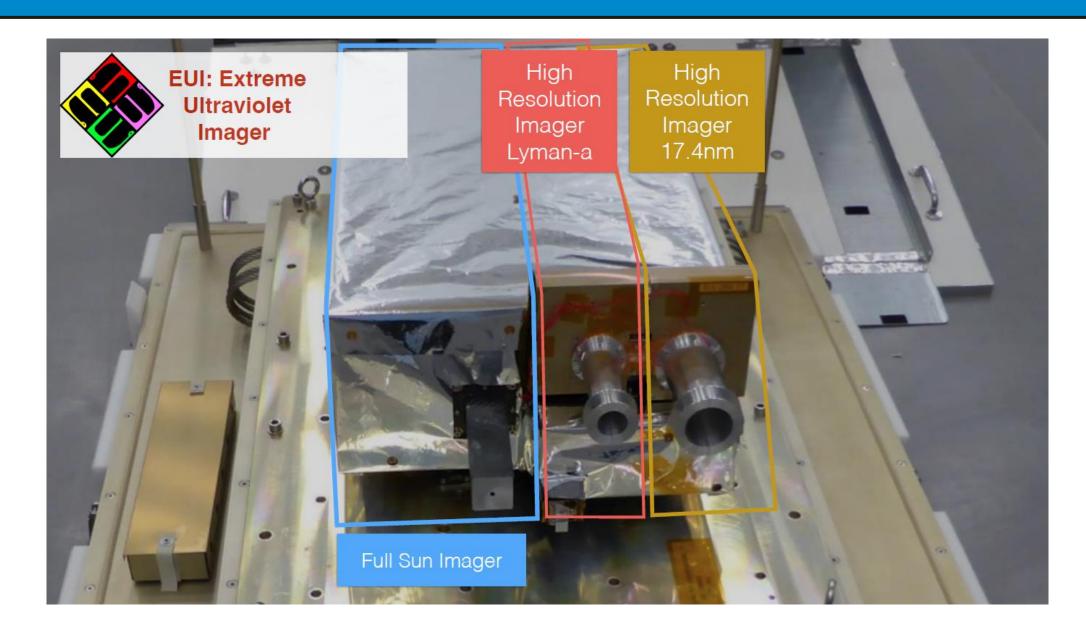


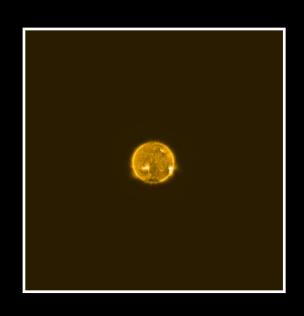
# Using EUI to link EPD events back to the Sun

Luciano Rodriguez<sup>1</sup> and the EUI team



### EUI



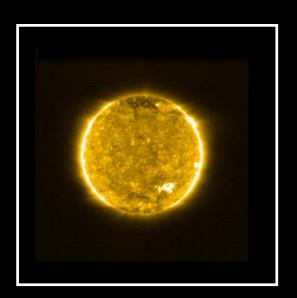


3072x3072 CMOS - 15 bit

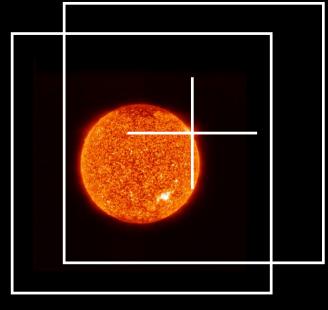
2-pix resolution: 9 arcsec FOV: 3.8°x3.8°

@ 1 AU: (14 Rsun)^2 @ 0.28 AU: (4 Rsun)^2

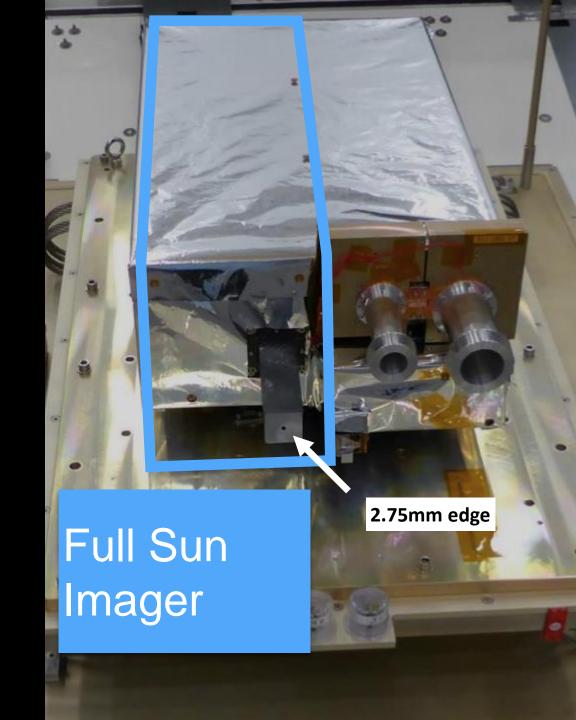
cadence: ~ minutes

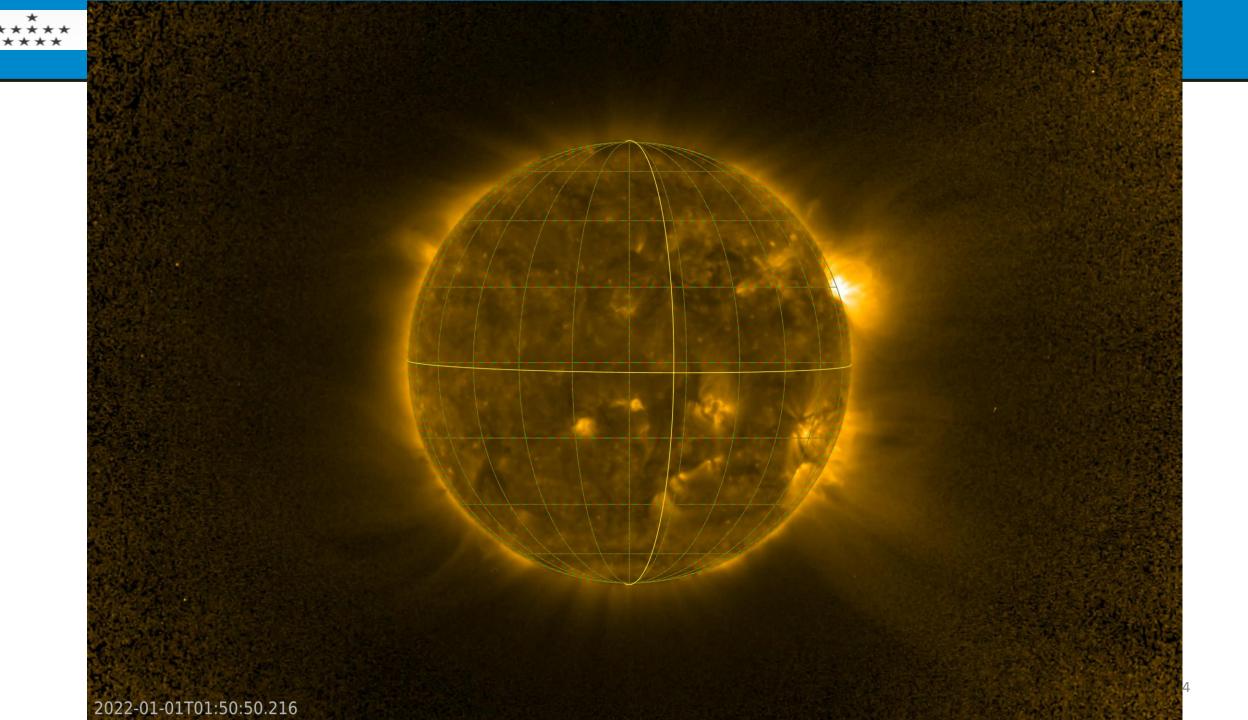


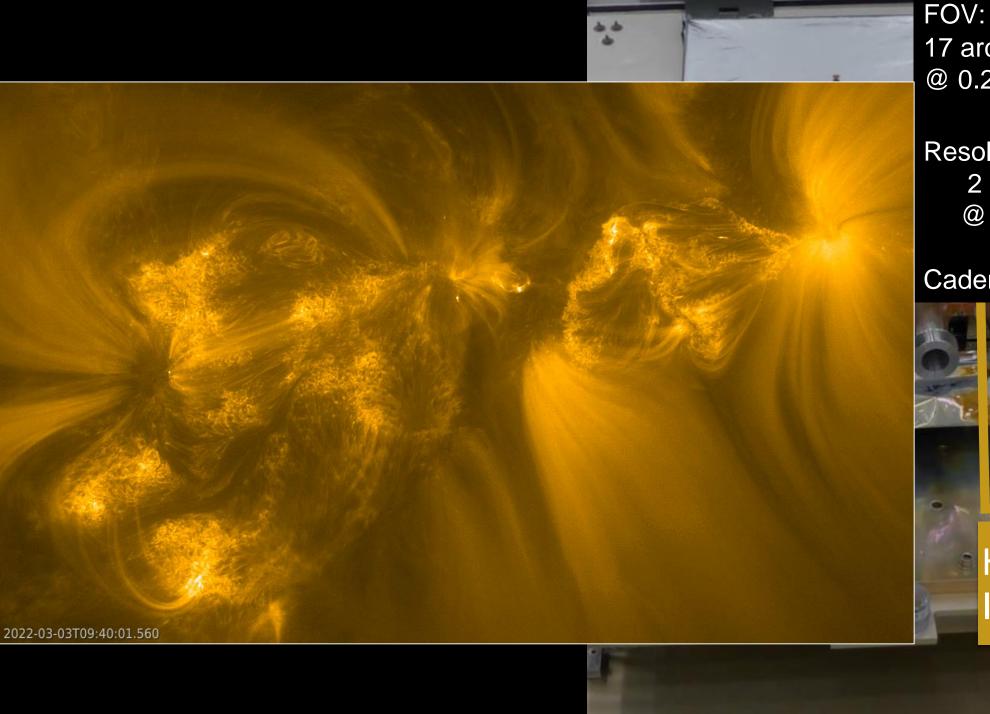
17.4nm



30.4nm







17 arcmin)^2 -> (2048)^2

@ 0.28 AU: (0.3 Rsun)^2

Resolution:

2 pixels= 1 arcsec

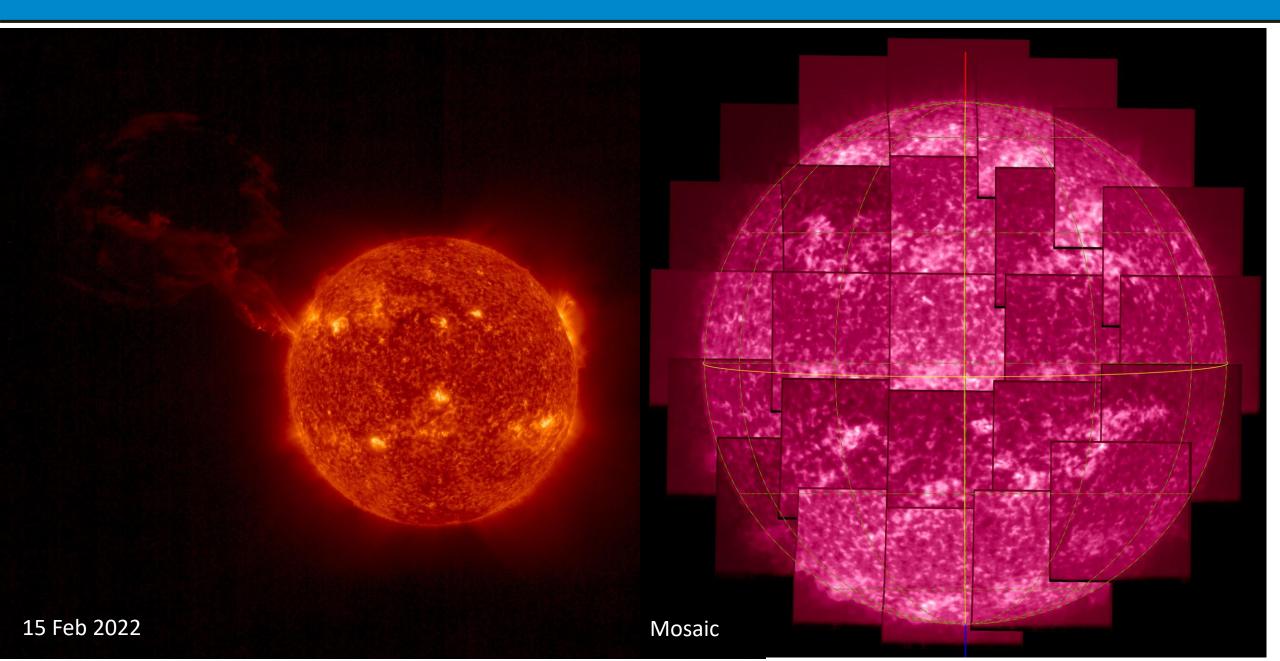
@ 0.28 AU: 200 km

Cadence ~ seconds



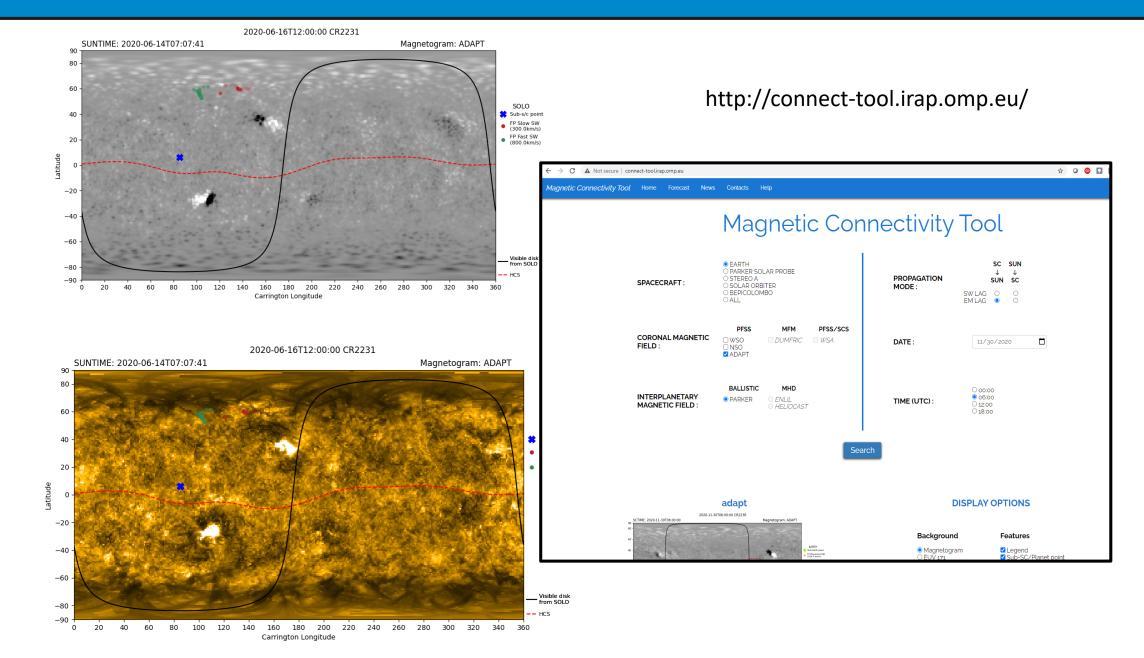


# FSI 30.4 & HRI-Lya



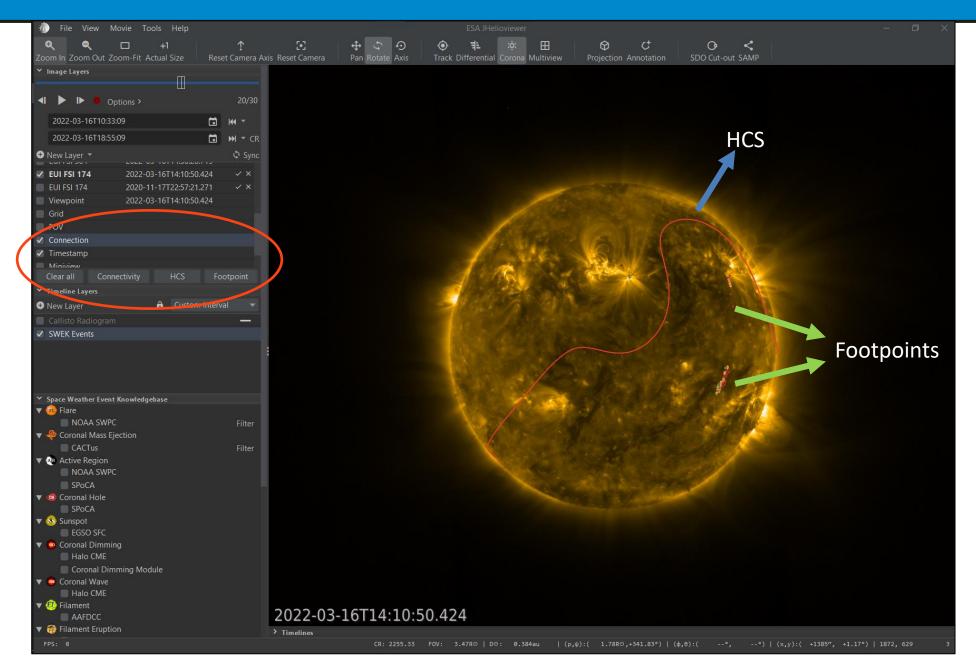


### SolO MADA WG: Magnetic connection



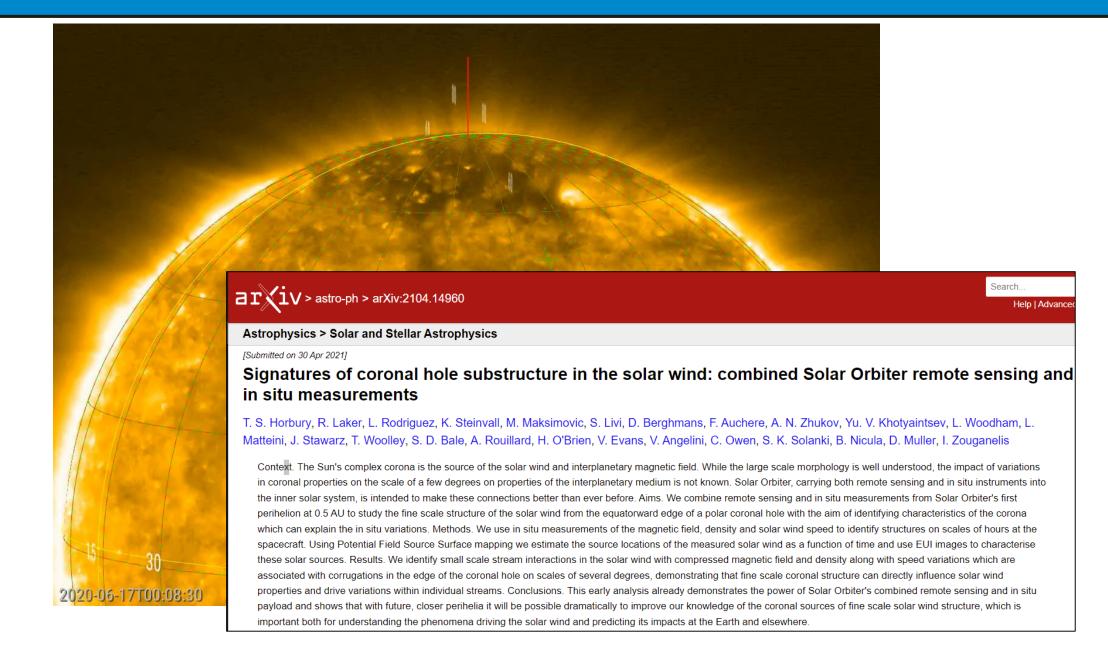


# Connectivity data in JHV

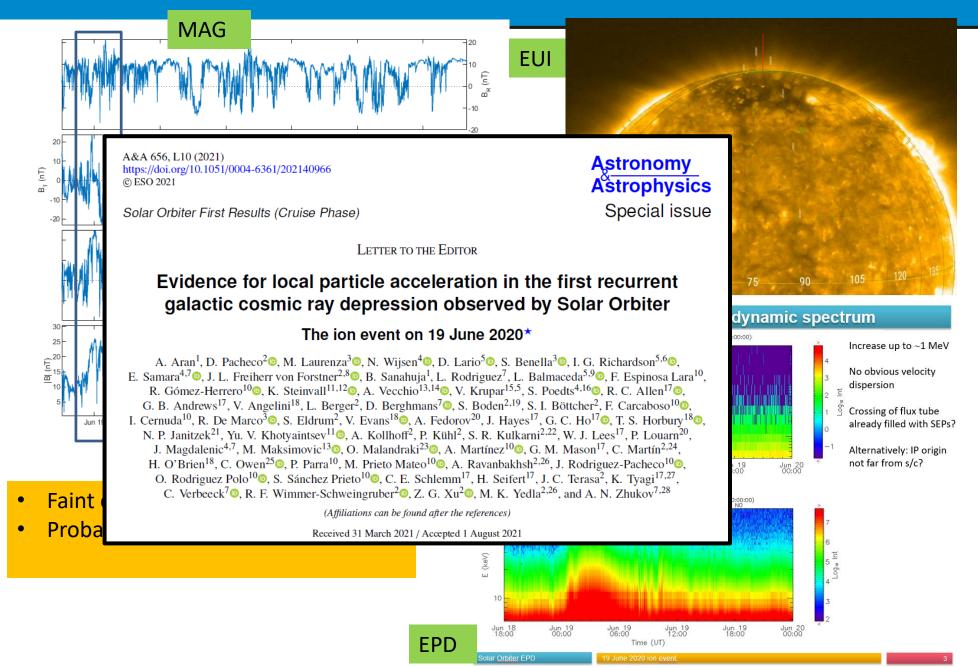




### EUI-MAG June 2020



### EUI - EPD June 2020





### Getting EUI data

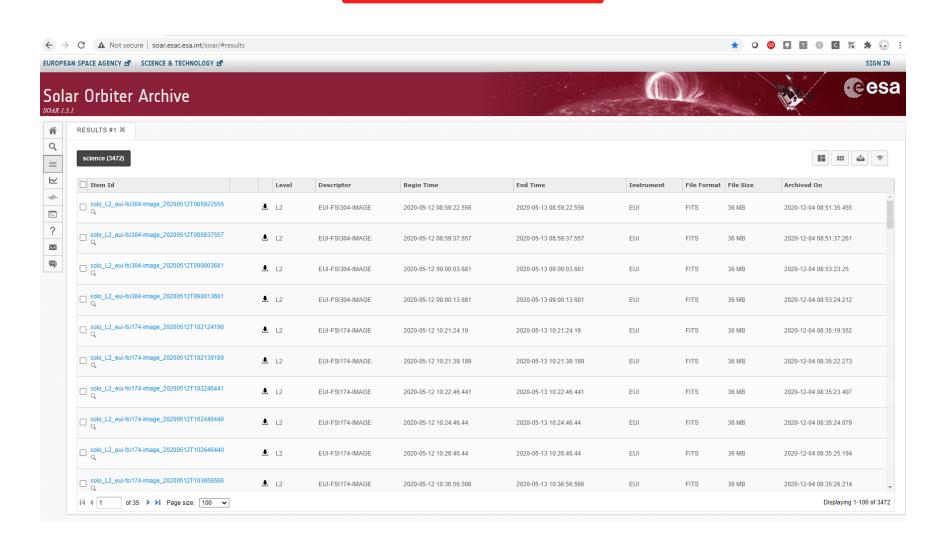
# https://wwwbis.sidc.be/EUI/data/latest\_release\_notes.html





### Getting EUI data

http://soar.esac.esa.int/





# HRI pointing: MADA WG Pointing Decission Meetings

VSTP Meetings to decide the last minute (~3 days in advance) pointing of HRIs and others

						/Tightish w	rt the decision meeting
which carried the pVSTP	SOOP coordinators	SOC guess of MADAWG	T1	PTR to MOC	Pointing decision	Pointing decision	T4
VSTP_UPDATE start decision for:	(supported by)	involvement	pass start before VSTP	deadline	meeting proposal	meeting proposal	Write LL before this
UTC			UTC	UTC	UTC	EUROPEAN	UTC
MADAWG checkpoint meeting - review the state of the Sun and the readiness for the up				etings		2\$/02/2022 09:30	24/02/2022 09:50
01/03/2022 10:00 Connection mosaic 1	Alessandra Giunta, Natalia Prado, Don	YES	28/02/2022 23:50	26/02/2022 23:50	26/02/2022 15:00	26/02/2022 16:00	26/02/2022 09:33
	Hassler					/	
02/03/2022 06:00 Slow wind connection	Stephanie Yardley	YES	02/03/2022 00:44	28/02/2022 00:44	27/02/2022 15:00	27/02/2022 16:00	27/02/2022 09:24
03/03/2022 18:00 update slow wind connection	Stephanie Yardley	YES	03/03/2022 12:49	01/03/2022 12:49	01/03/2022 09:00	01/03/2022 10:00	28/02/2022 23:50
05/03/2022 17:40 update slow wind connection	Stephanie Yardley	YES	05/03/2022 08:31	03/03/2022 08:31	02/03/2022 15:00	02/03/2022 16:00	02/03/2022 00:44
06/03/2022 16:40 Point pole and nanoflares	A. Zhukov - Pole	NO for pole	06/03/2022 07:26	04/03/2022 07:26	03/03/2022 15:00	03/03/2022 16:00	03/03/2022 12:49
(active region)	S. Parenti (D. Berghmans)- Nanof	YES for nanoflares					
16/03/2022 20:30 Nanoflares (quiet and active)	S. Parenti (D. Berghmans) - Nanof	YES for both	16/03/2022 07:13	3 14/03/2022 07:13	13/03/2022 15:00	13/03/2022 16:00	13/03/2022 11:0
and slow wind connection	Stephanie Yardley - SW						
17/03/2022 13:30 update slow wind connection	Stephanie Yardley	YES	17/03/2022 07:08	15/03/2022 07:08	14/03/2022 15:00	14/03/2022 16:00	14/03/2022 07:24
18/03/2022 16:20 update slow wind connection	Stephanie Yardley	YES	18/03/2022 07:04				
19/03/2022 16:20 update slow wind connection	Stephanie Yardley	YES	19/03/2022 07:01				
20/03/2022 16:20 update slow wind connection	Stephanie Yardley	YES	20/03/2022 09:20				
29/03/2022 16:20 Nanoflares (active region),	S. Parenti (D. Berghmans) - Nanof	YES for nanoflares	29/03/2022 06:59	27/03/2022 06:59	26/03/2022 15:00	26/03/2022 16:00	26/03/2022 10:40
point pole, connection mosaic 2		NO for pole					
	Alessandra Giunta, Natalia Prado, Don	YES for mosaic					
	Hassler - mosaic						
31/03/2022 13:10 Long term active region	Luis Bellot (D. Berghmans, M. Janvier)		31/03/2022 06:13				\
01/04/2022 16:30 update long term active region	, , , , , , , , , , , , , , , , , , , ,		01/04/2022 07:07				\
02/04/2022 16:40 update long term active region		probably Yes	02/04/2022 07:10				\ ' '
03/04/2022 16:40 update long term active region,		probably Yes for LTAR	03/04/2022 07:13	01/04/2022 07:13	31/03/2022 14:00	31/03/2022 16:00	31/03/2022 06:13
point pole	A. Zhukov - Pole	NO for pole					J \
							Summertime st
						Weekend PDM	
		_					_

All PD meetings occur on this Webex:

Meeting lin

https://esait.webex.com/esait/j.php?MTID=m57a250bb68040134e06aa1962c3298ee

Meeting number: 2366 381 7297 Password: ryNQRnUu426

N.B. PDM starttimes have been restricted to the range [10:00, 16:00] local SOOP coords can request to move meetings where needed for US participants. Meeting duration assumed as 2 hours

N.B. T4 is NOT accounting for the SOC LL "end-of-pass" delay

Pointing Coordination for Earth-assets webpage:

https://umbra.nascom.nasa.gov/solar\_orbiter/planning/ Info shown here becomes final by observation-time-48hrs. It is updated shortly after the PDM, linked to the sending of the PTR to MOC

LL = Low-Latency Data.

MADAWG= Modelling And Data Analysis Working Group.

MOC = Mission Operations Centre, i.e. ESOC

PDM=Pointing Decision Meeting. Subject of this spreadsheet. Times thereof in shaded column

PTR = Pointing Timeline Request. The operational product created by SOC based on the PDM's decisions

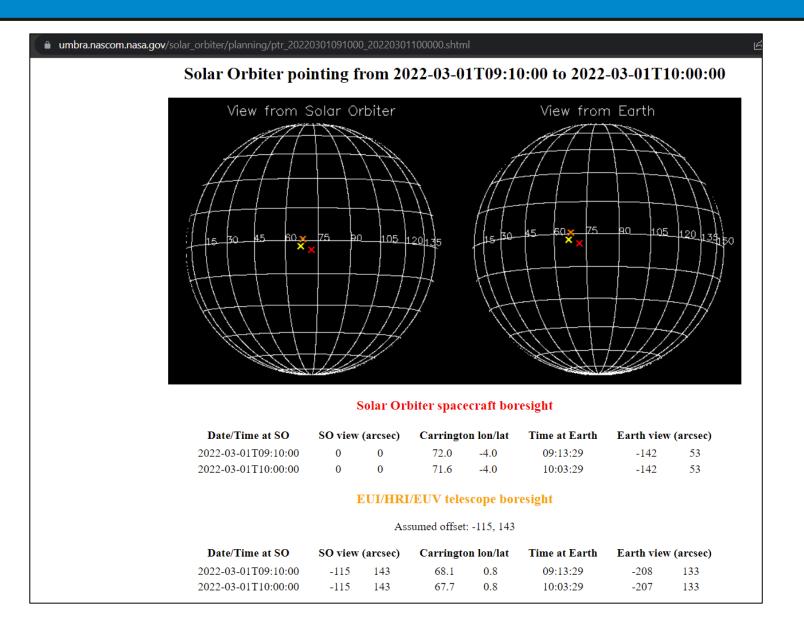
Not huge margin wrt MOC deadline

SOC = Science Operations Centre, i.e. ESAC



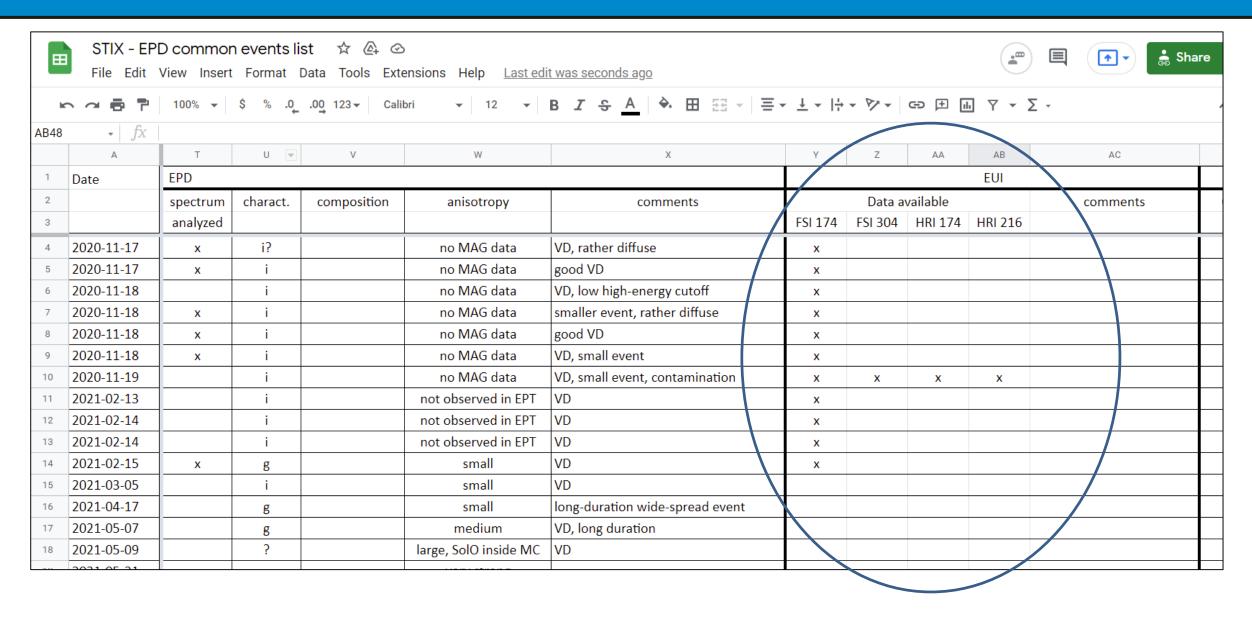
# HRI pointing: MADA WG Pointing Decission Meetings

Meetings to decide the last minute (~3 days in advance) pointing of HRIs and others



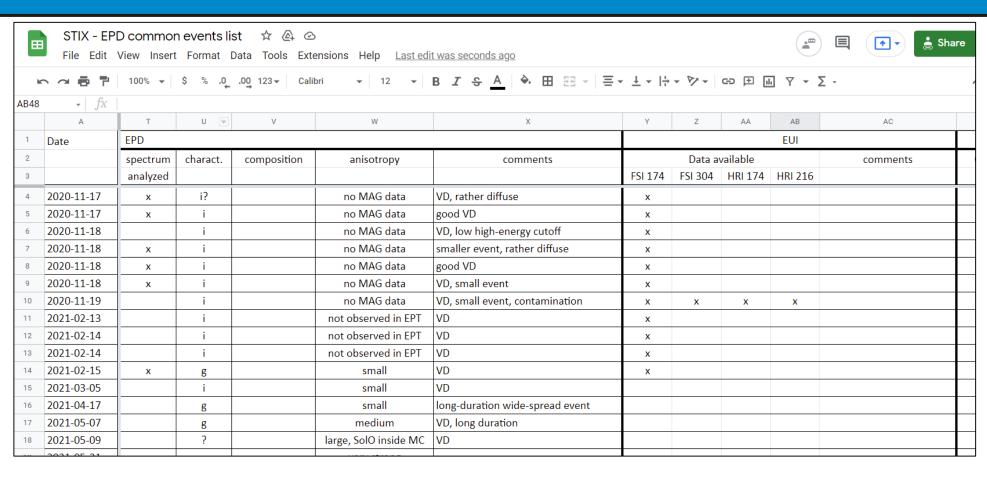


### **EUI-EPD** events





### **EUI-EPD** events



- EUI data availability done
- Check HRIs pointing
- Comment on the events themselves



# EUI list of eruptions

### By Marilena Mierla

#### **Eruptions at limb observed by FSI**

#### 2022-02-15

FSI304: huge prominence eruption, NE

#### 2022-02-12

FSI304: fast prominence eruption (loop) at W

#### 2022-02-11

FSI304: small filament eruption on disk

#### 2022-02-06

FSI304: nice wave and filament eruption

#### 2022-02-04

FSI304: failed eruption at W

#### 2022-02-03

FSI304: many failed eruptions at W

FSI174: eruptions

#### 2022-02-02

FSI304: prominence at SW, similar with the one from 31.01-01.02

#### 2022-01-31 to 2022-02-01

FSI304: prominence at SW

FSI174: eruption at E



### Summary

- EUI data available at:
  - https://wwwbis.sidc.be/EUI/data/latest\_release\_notes.html
  - Or upon request for more recent data

The connectivity tool can be used for connectivity, also within JHV

 We will work on the EPD / STIX table of events in order to include EUI